Attorney Docket No. 10541-1812

II. Listing of Claims

1. (Original): A fuel tank having a valve assembly for reduced fuel permeation, the

fuel tank comprising:

a tank shell having an outer layer and an outer lip extending outwardly

from the outer layer, the outer lip defining an aperture formed through the tank shell

and having inner and outer sides, the tank shell including a fuel delivery module

cover disposed thereon, the tank shell comprising a predetermined material;

a venting valve for venting a gaseous hydrocarbon fluid at a

predetermined pressure from the tank, the valve being disposed through the

aperture to define a circumferential space between the inner side of the outer lip and

the venting valve;

a channel having first and second ends, the first end connecting to the

venting valve within the tank so that the venting valve is in fluid communication

therewith when the valve vents fluid, the second end being attached to the fuel

delivery module cover to allow fluid in the tank to be vented therefrom;

a retention member disposed about the venting valve and attached to

the outer layer about the outer side of the outer lip defining an expansion boundary

so that the outer lip only expands toward the venting valve to seal the circumferential

space when the tank absorbs hydrocarbons; and

a cover comprising the predetermined material and attached to the

outer layer to seal the valve between the cover and the outer layer.

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2. (Original): The fuel tank of Claim 1 wherein the tank shell has an inner layer, the

inner and outer layers cooperating to form the outer lip.

3. (Original): The fuel tank of Claim 1 wherein the venting valve includes a valve

body having a top portion and a neck portion integrally extending from the top portion

to define the circumferential space.

4. (Original): The fuel tank of Claim 3 wherein the neck portion has a port extending

from the neck portion.

5. (Original): The fuel tank of Claim 4 wherein the top portion engages the retention

member to suspend the venting valve in the tank.

6. (Original): The fuel tank of Claim 1 further comprising a permeation barrier

material welded between the cover and the outer layer of the tank shell.

7. (Original): The fuel tank of Claim 6 wherein the outer layer and the cover have

substantially the same coefficients of expansion.

8. (Original): The fuel tank of Claim 6 wherein the permeation barrier material is

nylon.

9. (Original): The fuel tank of Claim 5 wherein the aperture is defined by a first

portion, the neck portion of the valve body engaging the tank shell in the first portion.

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10. (Original): The tank of Claim 9 wherein the first portion is a circular portion, the

neck portion being configured to have dimensions complementing the circle portion.

11. (Original): The tank of Claim 4 wherein the port is a male nozzle and the channel

is a tube having a female end disposed about the port.

12. (Cancelled)

13. (Original): The tank of Claim 2 wherein the inner and outer layers of tank shell

are made of a high density thermoplastic.

14. (Original): The tank of Claim 2 wherein the tank shell further includes a middle

barrier layer disposed between the inner and outer layers.

15. (Original): A venting assembly for venting a gaseous fluid from a fuel tank

having an outer layer and a fuel delivery module cover, the venting assembly

comprising:

an outer lip of the fuel tank extending outwardly from the outer layer,

the outer lip defining an aperture formed through the tank shell and having inner and

outer sides:

a venting valve for venting a gaseous hydrocarbon fluid at a

predetermined pressure from the tank, the valve being disposed through the

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aperture to define a circumferential space between the inner side of the outer lip and

the venting valve;

a cover attached to the outer layer to seal the valve between the cover

and the outer layer; and

a retention member disposed about the venting valve and attached to

the outer layer about the outer side of the outer lip defining an expansion boundary

so that the outer lip only expands toward the venting valve to seal the circumferential

space when the tank absorbs hydrocarbons.

(Original): The assembly of Claim 15 wherein the venting valve includes a valve

body having a top portion and a neck portion integrally extending from the top portion

to define the circumferential space.

17. (Original): The assembly of Claim 16 wherein the neck portion has a port

extending from the neck portion.

18. (Original): The assembly of Claim 17 wherein the top portion engages the

retention member to suspend the venting valve in the tank.

19. (Original): The assembly of Claim 15 further comprising a permeation barrier

material welded between the cover and the tank.

20. (Original): The assembly of Claim 19 wherein the permeation barrier material is

nylon.

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21. (Original): The assembly of Claim 18 wherein the aperture is defined by a first

portion, the neck portion of the valve body engaging the tank in the first portion.

22. (Original): The assembly of Claim 21 wherein the first portion is a circular

portion, the neck portion being configured to have dimensions complementing the

circular portion.

23. (Original): The assembly of Claim 17 wherein the port is a male nozzle and the

channel is a tube having a female end disposed about the port.

24. (Cancelled)

25. (Original): The assembly of Claim 15 wherein the tank is made of a high density

thermoplastic.

26. (Original): The assembly of Claim 15 wherein the tank includes a middle barrier

layer disposed between inner and outer layers.